BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : IMPROVEMENTS AND BALANCE WORKS TO AMBEDKAR BHAVANA IN WARD No.04 OF YELAHANKA SATELLITE TOWN SUB DIVISION

PREMEASUREMENT SHEET

First & Final Bill

Client	Executive Engineer KRIDL Bangalore.							
Chainage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From To								
Item No. 17	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.5 of PWD SR 2018-19)							
Measurements taken on	26/11/19 checked							
	Basement	Cum	1	38.48	23.97	0.075	69.18	
	Deduction							
	Lift	Cum	-1	3.17	2.9	0.075	-0.69	
	Columns							
	C1	Cum	-14	0.83	0.52	0.075	-0.45	
	C2	Cum	-16	0.42	0.42	0.075	-0.21	
						Total Executed Quantity	**67.82**	
						Qty Carried to Summary	**67.82**	

CONTRACTOR

PMC

ASSISTANT ENGINEER 26/11/19

ASSISTANT EXECUTIVE ENGINEER 26/11/19

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : IMPROVEMENTS AND BALANCE WORKS TO AMBEDKAR BHAVANA IN WARD No.04 OF YELAHANKA SATELLITE TOWN SUB DIVISION

MEASUREMENT SHEET

First & Final Bill

Client	Executive Engineer KRIDL Bangalore.									
Chainage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From To										
		Mtrs					30			
						Total Executed Quantity	30.0			
						Tender Quantity	30.0			
						Now To be Paid Qty	30.0	98.00	2940.00	
Item No. 58	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts,nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.I - Single Door 4Way SP &N									
Measurements taken on										
		Nos					14			
						Total Executed Quantity	14.0			
						Tender Quantity	14.0			
						Now To be Paid Qty	14.0	777.00	10878.00	
Item No. 59	Supplying of recess mounting non integrated type LED down light ..... W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clamps, LED of Power/COB with CCT 6500 degree K,CRI> 70%. efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF >0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit,THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition 3) 15-18W									
Measurements taken on										
		Nos					36			
						Total Executed Quantity	36.0			
						Tender Quantity	36.0			
						Now To be Paid Qty	36.0	2000.00	72000.00	
Item No. 60	Supplying of recess mounting non integrated type LED down light ..... W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clamps, LED of Power/COB with CCT 6500 degree K,CRI> 70%. efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF >0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit,THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition 3) 10-12W									
Measurements taken on										
		Nos					76			
						Total Executed Quantity	76.0			
						Tender Quantity	76.0			
						Now To be Paid Qty	76.0	1360.00	103360.00	

Checked

Checked

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : IMPROVEMENTS AND BALANCE WORKS TO AMBEDKAR BHAVANA IN WARD No.04 OF YELAHANKA SATELLITE TOWN SUB DIVISION

MEASUREMENT SHEET

First & Final Bill

Client	Executive Engineer KRIDL Bangalore.									
hainage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
rom To										
Item No. 63	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation.Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material,delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains,Surge Protection-Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site locationwith minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w,nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any overnment certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Bodypart. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above									
Measurements taken on										
		Nos					11			
						Total Executed Quantity	11.0			
						Tender Quantity	11.0			
						Now To be Paid Qty	11.0	7500.00	82500.00	
Item No. 64	Supplying, installing, testing and commissioning of Diesel Generator set with following specifications. Power rating as per standard reference condition as per-BS 5514 / ISO 3046 /ISO 8528 & IS 1002 / ISO 3046 Generator set specifications Engine: Diesel generating set are rated at 1500RPM and conform to ISO 8528 specifications. The engines are radiator cooled, four stroke and multi cylinder, conforming to ISO 3046. The scope of supply includes: Electrical starter motor 12V DC Battery charging alternator, Bosch fuel system with mechanical governor, A1 Class. Spin-on lube oil filter, Spin-on dual fuel filter with water separator, Turbocharger, Charge air cooler, Silencer (Hospital grade),Dry type air cleaner, Shutoff coil, Flywheel and flywheel housing, First fill of lube oil and coolant, Safety for low lube oil pressure, Safety for high water temperature, Permissible overload of 10% for one hour in 12 hours of operation Capacity of Fuel Tank: Fuel tank suitable for 8 hours of operation Alternator: Alternator is suitable for operation at 1500 RPM, 415 Volts, 0.8 pf (lag) suitable for 50 Hz, 3 phase, 4 wire systems, conforming toIS/IEC 60034-1. The Alternator is brushless type, screen protected, revolving field, self excited, self regulated through an AVR. The alternator shall have + 1.0 % Voltage regulation (max) in static conditions- IP: 23 protections with insulation class H Mounting arrangement: Engine and alternator are mounted on a common MS fabricated base frame with AVM pads Engine Starting –The control system supports automatic engine starting, Primary and back up start disconnects are achieved by battery charging alternator feedback or main alternator output frequency. Controller provide configurable time delay of 0-300 secs to start after remote start signal and time delay of 0-600secs prior to shut down after stop signal. Sleep mode increase battery life. Configurable current settings from low to minimize current draw when genset is not working. Engine Protective functions include, Configurable alarm output, Emergency stop: Annunciated whenever an emergency stop signal is received by the control. Low lube oil pressure warning and Shutdown, High engine water temp warning / Shutdown, Low coolant temp warning, Sensor failure indication, Low and high battery voltage warning, Weak battery warning, Fail to start shut down, Cracking lockout: Control will not allow the starter to engage or to crank the running engine. Cyclic cranking: Configurable for the number of starting cycle, (1 to 7) and duration of crank and rest periods. Alternator Protective functions includes, - High and Low AC voltage shut down, Under and Over frequency shutdown / warning, Loss of sensing voltage input shut down.									
Measurements taken on										

CONTRACTOR

PMC

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : IMPROVEMENTS AND BALANCE WORKS TO AMBEDKAR BHAVANA IN WARD No.04 OF YELAHANKA SATELLITE TOWN SUB DIVISION

MEASUREMENT SHEET

First & Final Bill

Client	Executive Engineer KRIDL Bangalore.									
Chainage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From To										
		Set					1			
						Total Executed Quantity	1.00			
						Tender Quantity	1.00			
						Now To be Paid Qty	1.00	1233300.0	1233300.0	
Item No. 65	Supply, Erection, testing and commissioning of AMF panel suitable for .....KVA DG set. The panel is of cubical type base/floor mounting control panel with hinged doors, undrilled bottom gland plate, aluminium Bus Bar with the accommodation for .....amps 4 pole contactor for alternator with thermal O/L relay,..... Amps 4 pole contactor for mains, HRC fuse for short circuit protection, Microprocessor based AMF module with supply failure timer, Restoration timer, 3 impulse automatic engine start/stop logic, Mains/generator voltage, ...capacity bypass switch and frequency sensing, PCC 1301 controller with water temperature/Lube oil pressure/ engine ed,Voltage/ampere/Frequency/ KVA,Running-hour count, No of starts, Fault indication, over /under speed, Fails to start, Low oil pleasure, High engine temperature, Under/over voltage, over current, Earth fault relay, with indications for Mains on, Load on Mains, Battery charger on Push buttons AMf module by pass Mode, Battery charger unit with inbuilt									
Measurements taken on										
		Set					1			
						Total Executed Quantity	1.0			
						Tender Quantity	1.0			
						Now To be Paid Qty	1.0	203200.0	203200.0	
Item No. 66	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 10C X 4Sq.mm									
Measurements taken on										
		Mtrs					30			
						Total Executed Quantity	30.0			
						Tender Quantity	30.0			
						Now To be Paid Qty	30.0	350.00	10500.00	
Item No. 67	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.25x3mm Copper strip									
Measurements taken on										
		Mtrs					50			
						Total Executed Quantity	50.0			
						Tender Quantity	50.0			
						Now To be Paid Qty	50.0	505.00	25250.00	
Item No. 68	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.									
Measurements taken on										
		Nos					31			
						Total Executed Quantity	31.0			
						Tender Quantity	31.0			
						Now To be Paid Qty	31.0	175.00	5425.00	

CONTRACTOR

PMC

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER